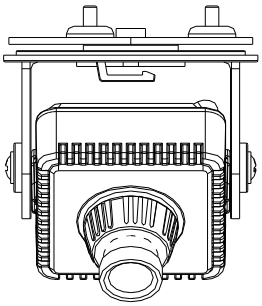
Ultra Wide Dynamic Mini Camera

User's Manual



DESCRIPTION

SW series Ultra WDR cameras are new CCTV cameras which adopt Pixim'sinnovative "SEAWOLF" image sensor chip based on Digital Pixel System® technology. The resolution is up to 690TVL-E and the industry-leading wide dynamic range is up to 120dB. This WDR ensures brilliant image quality under any lighting environment. The image and color quality is also excellent in low illumination environ -ments. This camera series is a ultra wide dynamic range camera in the real sense using digital sampling which can't be paralleledby average wide dynamic range cameras using older generation CCD imagers. The application of 3D digital noise reduction technology ensures higher S/N, which efficiently reduces the digital storage and transmission data saving system cost. Fashionable and professional exterior design and special all-in-one all directional bracket, makes round-the-clock surveillance easy and convenient.

Average camera withBLC off

Average camera withBLC on

Ultra Wide Dynamic Range camera

PRECAUTIONS

1. Use the Appropriate Power Supply

The input power will be DC12V. Be sure to connect it to the appropriate power. Wrong connection may cause malfunction and damage to the video camera.

2. Do not attempt to disassemble the camera.

To prevent electric shock, do not remove screws or covers. There are no user serviceable parts inside. Ask a qualified service person for servicing.

3. Handle the camera with care.

Do not abuse the camera. Avoid striking, shaking, etc. The camera could be damaged by improper handling or storage.

4. Do note use strong or abrasive detergents when cleaning the camera body.

Use a dry cloth to clean the camera when dirty. In case the dirt is hard to remove Use a mild detergent and wipe gently.

5. Do not put the camera in a place with interference.

When this camera is installed near the equipment like wireless communication device which emits strong electromagnetic field, some irregularity such as noise on monitor screen may happen.

FEATURES

"SEAWOLF" Image Sensor

This camera adopts innovative DPS(Digital Pixel System) image sensor and image processing technology. The sensor picks up details from each pixel based on hundreds of samples per video frame. vs CCD's limited exposures, to ensure wider dynamic range than isposs -ible with analog CCD. The image quality is even brilliant under extreme lighting conditions.changeable lighting condition.

Ultra Wide Dynamic Range

The captured wide dynamic range is 102dB typical and can reach 120dB maximum.

High Effective Resolution

Image resolution as high as 690TVL-E, offering enhanced horizontal and vertical resolution useable in existing as well as new CCTV systems.

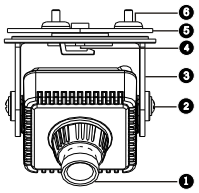
3D Noise Eliminating Technology

Adopts Pixim fully digitalized 3D noise reduction technology to minimize noise, extending DVR storage by 30%+.

Lower Illumination Working Capability

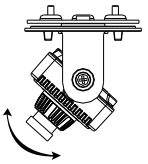
0.1Lux low illumination (IR OFF)

PARTS INSTRUCTION



1.lens
2.adjustment acrew
3.bracket
4.bracket retaining screw
5.installation panel
6.retaining screw hole on installation panel

camera horizontal angle adjustment

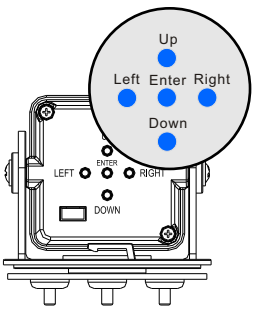


camera vertical angle adjustment

1.loose bracket retaining screw,, take off the installation panel。
2.fix the installation panel by screw to the place needed。
3.install the bracket to the installation panel。
4.loose the adjustment screw,, adjust the vertical and horizontal angle, then fix the adjustment screw。

OSD Menu Setup

ENTER: Enter Menu or Select Menu
UP/DOWN: This button is used to move the cursor upward or downward.
LEFT/RIGHT: This left or right button is used to move the cursor horizontally or change parameter.



OSD Menu Operation

OSD MENU OPERATION

CAMERA SETUP

WDR CONTROL	MEDIUM	(LOW/NORMAL/MEDIUM/HIGH)
BLC	OFF	(OFF/ON)
WHITE BALANCE	ATW	(ATW/AWB)
AGC	NORMAL	(LOW/NORMAL/HIGH)
LENS SELECT	DC	(MANUAL/DC)
FLUORESCENT	OFF	(OFF/CRR/CRR2)
D/N CONTROL	AUTO	(OFF/AUTO/GPIO)
LANGAGE SELECT	ENGLISH	(ENGLISH/CHINESE)
SAVE	DEFAULT	(CANCEL)

WDR ZONE SELECT:

NORMAL METER PRESETS

PRESETS	WD NROMAL	WD NROMAL/SAFE AREA/ATM/LOW 1/3
PRE	SAVE	CANCEL

*Specialists press "Left, Right, Left, Right, Down" button enter superior menu.

WDR Control:

Press Enter to show the menu, move the cursor to WDR Control, set MEDIUM, NORMAL, LOW, HIGH by left and right button; choose the setting for WDR in accordance with the lighting condition, set High in strong lighting contrast to realize higher quality image. WDR ZONE SELECT: WD NROMAL/SAFE AREA/ATM/LOW 1/3.

BLC:

move to BLC by Up and Down button, set BLC by Left and Right button: On and Off.

WHITE BALANCE:

Move to White Balance by Up and Down button, set White balance by Left and Right button: AWB: Auto White Balance; ATW: Auto Track -ing White Balance. The color's temperature are different in different lighting condition, The color's temperature changes in different ligh -ting condition, so the white color in video image changes if the light -ing condition changes. AWB means cameras can compensate color temperature automatically. In some special environment, in order to keep the same color temperature , ATW setting can keep a fixed color temperature

AGC:

Move cursor to AGC by Up and Down button, set AGC by Left and Right Button as: NORMAL, LOW and HIGH. Setting AGC is better for cameras to work in wider lighting range, if the illumination is low, can set AGC high to rise the sensitivity of cameras.

LENS SELECT:

Move cursor to LENS SELECT, set LENS SELECT by Right and Left button as :MANUAL, DC: DC Automatically. MANUAL FOR MANUAL IRIS LENS, DC for AUTO IRIS LENS.

FLUORESCENT:

Move cursor to FLUORESCENT by Up and Down button, set by Left and Right buttonas: OFF, CRR2: Color Rolling Restrain. Cameras output color rolling image under fluorescent lamp, CRR can restrain color rolling, keep the image stable.

LANGAGE SELECT:

Move cursor to LANGAGE SELECT by Up and Down button, set by Left and Right button as: ENGLISH; CHINESE.

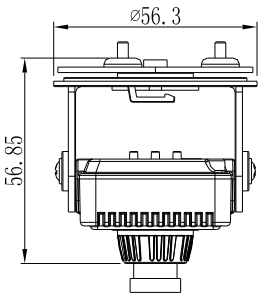
D/N Control:

Move cursor to D/N Control by Up and Down button, set D/N by Left and Right button as: OFF; Auto; GPIO: External Control; On. The illumination is very low at night, so we need to rise the sensitivity and improve imaging quality, then we can get better image quality. Set D/N in accordance with different actual need.

SAVE&EXIT:

Move cursor to SAVE&EXIT by Up and Down button, set by Left and Right button as: SAVE&EXIT; DEFAULT, CANCEL.

DIMENSIONS



SPECIFICATION

Sensor	Sensor		1/3" DPS Sensor
	Video Format		PAL/NTSC
	Resolution		690HTVL-E
	Mini illumination		0.1Lux
	S/N Ratio		⩾50dB (AGC OFF)
Control	WDR control		medium, normal, low, high
	BLC		ON,OFF
	AGC		normal, low, high
	White Balance	Mode	Tracking White Balance, Auto White Balance(ATW)
		Automatic	(Auto White Balance) 2200~10000 K°
	D/N		OFF, External Control, Auto; ON
	SYNC Mode		INTERNAL
Power	Voltage		DC12V
	Current		<150mA
Lens			2.8mm pinhole
Working Temperature			-10 C° ~50 C°
Size			56(⌀)*57(H)
Weight			100g

*Specification is subject to change without prior notice